BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. 2500000.00

Name of Work: Detailed Estimate for the work of Providing Asphalting to 17th B cross road in ward no -04.

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1,Earth work excavation by manual means in ordinary soil involving an average horizontal throw up to 2 meters and an average lift uo to 1 5m,excavated surface levelled and sides neatly dresssed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications (Item no19 1,Page no142, PWD SR 2016-17)	cum							
	for RCC drain		2	130.00	1.00	1.00	260.00		
	culvert		2	6.00	1.50	1.00	18.00		
							278.00	**86.92**	**24164.00**
	Basic Rate	82.00							
	Area Weightage 6%	4.92							
	Grand Total	86.92							
2	KSRB 100-1 Loading and unloading ofstone aggregates / sand/ kanker/ Moorum /soil KSRRB M100-1 Placing tipper at loading with front end loader dumpting turning for return trip excluding time for haulged and return trip complete as per specification item No 17 1 page 130 and KSRB M 100 4 1 costof haulage excluding loading and unloading MORTH to a distance of 4 00 K.M (Item No 17 4 Page 134 (SR 2016-17)	cum							
				Vide Item No. 1			278.00	99.22	27582.00
	Basic Rate for loading and unloading	68.00							
	Basic Rate for Haulage upto 8 00 k.m =1.28 X 2.50 X 8	25.60							
	Basic Rate	93.60							
	Area Weightage 6%	5.62							
	Grand Total	99.22							

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	KSRB 4-1 3 Providing and laying in position plain cement concrete of mix 1 4 8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0 85cum and fine aggregates @ 0 57cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications Specification No KBS 4 1, 4 2 (P 12/I 4 3)/ PWD SR 2016-17	Cum							
	for RCC drain		2	130 00	0 90	0 15	35 10		
			2	6 00	1 20	0 15	2 16		
							37 26	5159 02	192225 00
	Basic Rate	4867 00							
	Area Weightage 6%	292 02							
	Grand Total	5159 02							
4	KSRB 4 2 2 Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0 69cum and fine aggregates @0 460cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, **lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc,** including cost of all materials, labour HOM of machinery, curing, complete as per specifications Specification No KBS 4 1,4 6, No KBS 4 1,4 6, No 13/ Item No 4 11/ PWD SR 2016-17	Cum							
	for RCC drain bed		2	130 00	0 90	0 15	35 10		
	side walls	2x2	4	130 00	0 15	0 70	54 60		
	for culvert		2	6 00	1 20	0 23	3 31		
	side walls	2x2	4	6 00	0 23	0 75	4 14		
							97.15	6371.66	619020.00
	Basic Rate	6011 00							
	Area Weightage 6%	360 66							
	Grand Total	6371 66							

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
5	KSRB 4.9.2 providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications Specification No KBS 4.6.3 Page No 17/ Item No 4.46/ PWD SR 2016-17	Quintal							
	for RCC drain 65 kg/cum		0.650	**89.70**			58.31		
	for culvert 90 kg/cum		0.900	**7.45**			6.71		
				97.15			**65.01**	**6445.54**	**419036.00**
	Basic Rate	6080.70							
	Area Weightage 6%	364.84							
	Grand Total	6445.54							
6	KSRB 4-6.4 Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, attached pilasters, biltresses buttresses plinth and string course including cost of all materials, labour complete as per specifications Specification NO KBS 4.6.2 Page No 15/ Item No 4.31/ PWD SR 2016-17	sqm							
	for rcc drain	2x4	8	130.00		0.70	728.00		
	culvert	2x4	8	6.00		0.75	36.00		
							764.00	**310.58**	**237283.00**
	Basic Rate	293.00							
	Area Weightage 6%	17.58							
	Grand Total	310.58							

No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
7	RCC Precast covering slab for drain (10cm thick)	sqm							
			2	130.00	0 90		234 00		
							234.00	**2100.00**	**491400.00**
	Rate Approved by BBMP	**2100.00**							
8	Providing precast slab of **250 mm thick including cost of all** materials, labour, curing,transportation,loading ,unloading,etc ,complete as per the direction of engineer in charge-	sqm							
		2x9	18	1.20	0 60		12 96		
							12 96	**5111.00**	**66239.00**
	Data Rate	5111 00							
9	**Cleaning the existing black topped surface** with brooms, soft brushes and finally dusting with old gunny bags and /or compressed air to recieve bituminous treatment including cost of all materials, labour, HOM of machineries complete as per Specifications (P.No.157 & I No.21.2)								
		Sqm							
			1	135 00	7 00		945 00		
							945.00	3 18	**3005.00**
	Basic Rate	3 00							
	Area Weightage 6%	0 18							
	Grand Total	3 18							
10	KSRRB M400- Wet Mix Macadam - KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications MORTH Specification No. 406 (P.No.158 I No.20.18)								
	either side of road edge	Cum							
			2	80.00	1 00	0 15	24 00		
							24.00	1768 08	**42434.00**
	Basic Rate	1668.00							
	Area Weightage 6%	100.08							
	Grand Total	1768.08							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
11	Providing and applying primer coat with ss bitumen emulsion on prepared surface of granular base such as WMM including clearing of road surface and spraying primer at the rate of 0 60 kg/sqm using mechanical means complete as per specifications MORTH Specification No 502 (P No 160/It No 21 6)								
		Cum							
			2	80 00	1 00		160 00		
							160.00	27 56	**4410 00**
	Basic Rate	26 00							
	Area Weightage 6%	1 56							
	Grand Total	27 56							
12	KSRRB M500- 15. Providing, laying dense graded bituminous macadam using 40/60 TPH capacity H M P with Mechanical paver Gr-II (50mm to 75mm), crushed aggregates of specified grading premixed with 4 5% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications MORTH Specification No 507 (P No 162&163 It No 21 17 6)								
		Cum							
			2	80 00	1 40	0 050	11 20		
							11.20	6284 74	**70389.00**
	Basic Rate	5929 00							
	Area Weightage 6%	355 74							
	Grand Total	6284 74							
13	KSRRB 500-7 Providing and **applying tack coat with bitumen hot emulsion** using 80/100 grade bitumen (VG20) on the prepared black toped suface at 2 5kg per 10 sqm, heating bitumen in boiler fitted with spray set (Excluding cleaning of road surface) including cost of all materials, labour, HOM of Machineries complete as per Specifications (P No 160 & I No 21 7)								
		Sqm							
			1	135 00	7 00		945 00		
							945.00	11 66	**11019.00**
	Basic Rate	11 00							

Sl No	Description of item	Unit	No			D	Qty	Rate	Amount
	Area Weightage 6%	0 66							
	Grand Total	11 66							
14	KSRRB M500- 15 Providing, laying bituminousConcrete using 40/60 THP capacity H.M.P with Mechanical paver Gr-II (30mm to 45mm) crushed aggregates of specified grading premixed with 6% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade,rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH Specification clause No.500 9 complete in all respects complete as per specifications MORTH Specification No 509 (P No 164 Item No 21 22 6)								
		Cum							
			1	135 00	7 00	0 040	37 80		
							37.80	7083 98	**267774.00**
	Basic Rate	6683 00							
	Area Weightage 6%	400 98							
	Grand Total	7083 98							
15	KSRRB M800-13 Road marking with hot applied thermoplastic compound with reflect rising glass beads on bituminous surface- providing and laying of hot applied thermoplastic compound 2 5 mm thick including reflectorising glass beads at 250 gms per sqm area. thickness of 2 5 mm is exclusive of surface to level, uniform and free from streaks and holes complete as per specifications. MORTH specification No. 803, No. 1974 (P No 185 & I No.24 15)	sqm							
			2	135	0 10		27 00		
							27.00	542 72	**14653.00**
	Basic Rate	512 00							
	Area Weightage 6%	30 72							
	Grand Total	542 72							
16	Miscellaneous charges								9367 00
								Total	**2500000.00**
	(Rupees Twenty five Lakhs Only)								

CERTIFICATE

1 The work spot has been inspected and the work is found necessary
2 This estimate is prepared as per C.S.R. of 2016-17
3 The provisions were made in this estimate are necessary and adequate
4 This works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer
Yelahanka Satellite town Sub Division
Bangalore-64

Executive Engineer
Yelahanka Division
Bangalore-64

Technical Sanction
Accorded For 2500000/-
Head of A/C..P.1731
CER NO :..... Dt:..

TA to CE (YNK)